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ABSTRACT

This book is a collection of life science classroom demonstrations. Explanations that review key concepts are included. Topics are: stimulus and response; gravitropism; phototropism; living organisms; carbon dioxide; gases emitted by plants; greenhouse effect; stomata; transpiration; leaf skeletons; seed growth; water evaporation in plants; carbon dioxide-oxygen cycle; animal circulation; capillarity; cell model; testing for starch, sugar, minerals, fats, protein, vitamins, and water in foods; chlorophyll and chromatography; biodegradable materials; vitamins and minerals; peristalsis; mechanical and chemical digestion; stomach chemistry; digestion; bile; small intestine; heartbeat and pulse; effects of nicotine; indoor plant infestations; biological control of pests; asthma and emphysema; keeping cool; source of living things; asexual and sexual reproduction; insect multiplication; inherited traits; expression of genes; fish and color; habitat; earthworms; metamorphosis; soil and soil erosion; hydroponics; molds; and diffusion. Appendices include: Density of Liquids; Altitude, Barometer, and Boiling Point; Specific Gravity; and Conversion of Temperature Scales. (JRH)

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